

## Material Safe Data Sheet

Date Created 11/23/2010  
Date Updated  
Version 1.1

### Section 1- Product Information

Product Name 5X Sample Buffer  
Product Cat. No. MB01015

### Section 2- Composition / Information on Ingredients

Hazardous/Non-hazardous Component

Chemical Name	Cas-No
SDS	151-21-3
Tris	77-86-1
BPB	115-39-3
2-Mercaptoethanol	60-24-2
Glycerol	55-81-5

### Section 3- Hazards Identification

HMIS Rating  
Health 0  
Flammability 0  
Reactivity 0  
NFPA Rating  
Health  
Flammability  
Reactivity

For additional information on toxicity, please refer to Section 11.

### Section 4- First Aid Measures

Skin Exposure Wash off immediately with plenty of water.  
Ingestion Never give anything by mouth to an unconscious person.  
Inhalation Move to fresh air.  
Eye Exposure Rinse thoroughly with plenty of water, also under the eyelids.  
Notes to physician Treat symptomatically.

### Section 5- Fire Fighting Measures

Extinguishing Media Suitable Dry chemicals.  
Fire Fighting Protective Equipment Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### Section 6- Accidental Release Measures

Methods for cleaning up Soak up with inert absorbent material.  
Procedure(s) of Personal Precaution(s) Use personal protective equipment.

### Section 7- Handling and Storage

Handling No special handling advice required.

Storage Keep in properly labelled containers.

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### Section 8- Exposure Controls/Personal Protection Equipment

Engineering Controls Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

Respiratory	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	Protective gloves.
Eye protection	Safety glasses with side-shields.
Skin and body protection	Lightweight protective clothing.
Environmental exposure	Prevent product from entering drains.
General Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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### Section 9- Physical and Chemical Properties

#### Appearance

Physical State	Form: Liquid Colour: blue Odour: pungent
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#### Property

Molecular Weight	Not available
pH	Not available
BP/BP Range	Not available
MP/MP Range	Not available
Freezing Point	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
SG/Density	Not available
Bulk Density	Not available
Odor Threshold	Not available
Volatile%	Not available
VOC Content	Not available
Water Content	Not available
Solvent Content	Not available
Evaporation Rate	Not available
Viscosity	Not available
Surface Tension	Not available
Partition Coefficient	Not available
Decomposition Temp.	Not available
Flash Point	Not available
Explosion Limits	Not available
Flammability	Not available
Autoignition Temp	Not available
Refractive Index	Not available
Optical Rotation	Not available
Miscellaneous Data	Not available
Solubility	Not available

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### Section 10- Stability and Reactivity

Stability	Stable
Hazardous Decomposition Products	Not available
Materials to avoid	Not available
Products polymerization	Hazardous polymerization does not occur.

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**Section 11- Toxicological Information**

## Routes of Exposure/

## Potential Health effects

Eyes	May cause eye irritation with susceptible person.
Skin	May cause skin irritation with susceptible person.
Inhalation	Not available
Ingestion	Not available
Specific effects	(Long term effects)
Carcinogenic effects	Not available
Mutagenic effects	Not available
Reproductive toxicity	Not available
Sensitization	Not available
Target organ effects	Not available

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**Section 12- Ecological Information**

Ecotoxicity effects	Not available
Mobility	Not available
Biodegradation	Inherently biodegradable.
Bioaccumulation	Does not bioaccumulate.

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**Section 13- Disposal Considerations**

Dispose of in accordance with local regulation.

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**Section 14- Transport Information**

## IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulation
Hazard Class	Not available
Subsidiary Class	Not available
Packing group	Not available
UN-No	Not available

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**Section 15- Regulatory Information****bromophenol blue (CAS: 115-39-9) is found on the following regulatory lists;**

"Canada Domestic Substances List (DSL)", "Canada Toxicological Index Service - Workplace Hazardous Materials Information System -WHMIS (English)", "US - Maine Chemicals of High Concern List", "US DOE Temporary Emergency Exposure Limits (TEELs)", "US Toxic Substances Control Act (TSCA) - Inventory.

**Tris base (CAS: 77-86-1) is found on the following regulatory lists;**

US Toxic Substances Control Act (TSCA) – Inventory.

**2-Mercaptoethanol(CAS: 60-24-2) is found on the following regulatory lists;**

US Toxic Substances Control Act (TSCA)

**European Inventory of Existing Commercial Chemical Substances (EINECS).**

,"Canada Toxicological Index Service - Workplace Hazardous Materials Information System -WHMIS (English)", "Canada Domestic Substances List (DSL)" – Inventory.

**sds(CAS: 151-21-3) is found on the following regulatory lists;**

US Toxic Substances Control Act (TSCA) – Inventory.

Hazard Category for SARA Section 311/312 Reporting: Acute

**WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

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**Section 16- Other Information**

Disclaimer For research use only.

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.